ON MANUAL

ROMSTAR"INC.

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TABLE OF CONTENTS

	PA	GE
I.	LOCATION AND SETUP	1
11.	DIP SWITCH SETTINGS	2
III.	ADJUSTMENTS OF TV MONITORS	3
,	A. ADJUSTMENT ON COLOR VIDEO MONITOR	4
	B. DETAIL EXPLANATION OF ADJUSTMENTS	5
	C. CHECK POINTS IN CASE OF DIFFICULTY	6
IV.	COIN DOOR MAINTENANCE	7
	A. NOTES	8
V	. LAYOUTS/MAIN HARNESS PINOUT/FACTORY SETTING	9
	A. CONNECTOR H/CONNECTOR J/CONNECTOR K	10
	C. CABINET DIMENSIONS FOR NINJAWARRIORS	12
VII.	CONCLUSION	
	A. LIMITED WARRANTY	13
	B. FBI WARNING	14
	CCOMMENTS	15

LOCATION AND SETUP

INSPECTION

1.	Remove the game from its shipping carton.
2.	Inspect the entire outside of it for any signs of damage.
	Any scratches?, dents?, cracks?
	Any broken controls?
	Just look it over closely and make a note of any signs of damage.
3.	Remove the shipping cleats from the bottom of the cabinet.
4.	Install the four levelers, one at each corner of the cabinet.
	Level the cabinet.
5.	Open the cabinet and inspect the inside of the game for any signs of damage.
	Also check to make sure all plug-in connectors on the wire harness are firmly seated.
	Replug any connectors found unplugged. DO NOT FORCE PLUGS INTO CONNECTORS. DO NOT
	FORCE PLUGS TOGETHER. If it won't go on easily, assuming the keys are lined up, it either does not
	belong there or is damaged.
	Make sure all printed circuit boards (P.C.B.'s) are firmly seated in their connectors. These connectors are also keyed. The P.C.B.'s will only go into them one way without being damaged.
	Note the location of the game's serial number.
	Check all major subassemblies to be sure they are mounted securely.
	Power supply (s).
	Control panel (s).
	T.V. monitor (s).
	Other P.C.B.'s and/or P.C.B. rack, etc.
	Power Chassis.
6.	Make a note of any problems that can't be easily corrected.

NOTE: ALL connectors or plugs are keyed so they will only go together when all pins are properly lined up.

7. Call your distributor and/or service man about your problem list.

DIP SWITCH SETTING

DIP SWITCH A

THE NINJAWARRIOR

		1	2	3	4	5	6	7	8
CONTINUE MODE	* WITH	OFF							
CONTINUE MODE	WITHOUT	ON							
NOT USED	*		OFF						
NOT USED			ON						
TEST MODE	* NORMAL			OFF					
TEST MODE	TEST MODE			ON					
DEMO COUND	* WITH				OFF				
DEMO SOUND	WITHOUT				ON			_	
COIN PRICING	1 COIN - 1 PLAY					OFF	OFF		
COIN PRICING	1 COIN - 2 PLAY					ON	OFF	}	
COIN SLOT A	* 2 COIN - 1 PLAY					OFF	ON		
COINSECTA	2 COIN - 3 PLAY					ON	ON		
COIN PRICING	1 COIN - 1 PLAY							OFF	OFF
CONTRICING	1 COIN - 2 PLAY							ON	OFF
COINSLOT B	* 2 COIN - 1 PLAY							OFF	ON
COIN SLOT B	2 COIN - 3 PLAY	1						ON	ON

^{*} ROMSTAR RECOMMENDED SETTING

DIP SWITCH B

			1		2	3	4	5	6	7	8
		В	OF	F	OFF			_			
DIFFICULTY		A	0	N	OFF						
DIFFICULT	*	С	OF	F	ON						
		D	0	N	ОИ			_			
	*					OFF	OFF				
NOT USED		,				ОИ	ON				
NOT USED						OFF	ON				
					•	ON	ON				
	*					,		OFF			
		_						ON	OFF		
NOT USED								OFF			
								ON	ON		
DISCOUNT PLAY	*	WITH								OFF	
WHEN CONTINUING	W	ITHOUT				_				ON	
	*										OFF
											ON

^{*} ROMSTAR RECOMMENDED SETTING

ADJUSTMENTS OF TV MONITORS

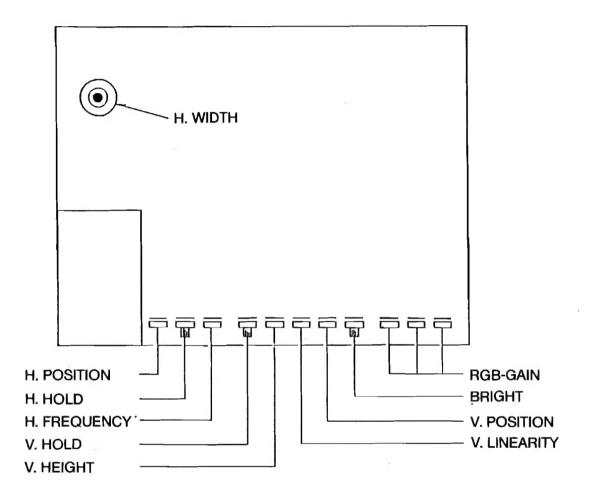
- (1) Turn the DIP-SW (A-3) "ON" for the test mode.
- (2) When the color-bars appear on the screens, by pressing the 1-P side "DAGGER" button the screens change to the adjusting mode.
- (3) In the adjusting mode, each time by pressing the 1-P "DAGGER" button, the background screen changes.
- (4) Adjust the monitors whan the screens are in the "city" mode, then make sure the adjustment is the same in the other modes.
- (5) The adjusting-screens do not move. Adjust them so that the standard adjusting-lines will be straight as shown below.

(Monitor) (Monitor) (Monitor)

(6) After finishing the adjustment, when the color-bars appear on the screens, by pressing the 1-P select button, the screens change to the test mode.

If you need the monitor adjustments once more, turn the power switch "OFF" and "ON" again.

ADJUSTMENT ON COLOR VIDEO MONITOR



• The adjustments have been done at the factory for the best performance, but if necessary, adjust the above pots by referring the explanation for each adjustment.

NOTE: Careless adjustment will cause failures such as out of synchronization, picture distortion, and high-voltage rising.

Never touch the white-paint-locked adjusting devices. Also, extra care must be taken when you adjust the TV monitor, because higher voltages exist there.

 Color distortion may happen depending on the setting condition of the machine. In that case, use a degaussing device or the degaussing switch.

Keep magnets away from the screen, or they may result in color distortion.

DETAIL EXPLANATION OF ADJUSTMENTS

V. POSITION

For adjusting the vertical raster position.

V. HOLD

Use this when the picture moves up or down without stopping.

V. HEIGHT

For adjusting the vertical screen size.

V. LINEARITY

Adjust this Pot, if the upper or the lower part of the screen is shrunken.



Use this in the case that the adjustment can not be made by using the H. HOLD.



Use this when horizontal stripes appear on the screen or when you want to shift the picture slightly to the left or right.



For adjusting the horizontal display position of the picture.

H. WIDTH

For adjusting the horizontal screen size.

BRIGHT (for adjusting the screen brightness).

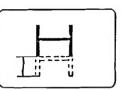
Adjust this depending on the condition in location.

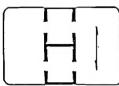
R.G.B. - GAIN

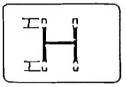
R-GAIN . . . for adjusting the red color

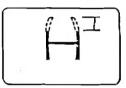
G-GAIN . . . for adjusting the green color

B-GAIN . . . for adjusting the blue color

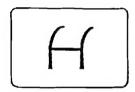


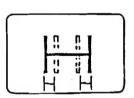


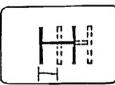












CHECKPOINTS IN CASE OF DIFFICULTY

No Raster/No Video

- Check A.C. line cord
- Check line fuse
- Check monitor brightness
- Check power switch and/or interlock switch
- Check all solder connections on line filter and transformer
- Check for proper orientation of the PCB connector

Raster/No Video

- Check all PCB to monitor connections
- Check power supply voltage on PCB

No Video/Game sounds can be heard

- Check monitor brightness
- Check all PCB to monitor connections

Wrong colors

- Monitor needs degaussing
- Check for proper wiring between PCB and monitor
- Check monitor adjustment and adjust if necessary

Wavy picture

- Check monitor ground is properly connected to monitor
- Be certain sync inputs are properly connected to monitor
- Check horizontal hold adjustment

Horizontal/Vertical Roll

- Check horizontal and/or vertical hold adjustments
- Check for proper wiring of sync from PCB to monitor

No sound

- Check for 5 volts on edge connector of PCB
- Check volume control potentiometer adjustment
- Check for +12 volts on edge connector of PCB
- Check wiring from PCB to speaker
- Check speaker for low resistance between the "+" and "-" tabs

Bad sound

- Check wiring to speaker for bad solder connections
- Check sound with another speaker

No switch input

- Check ground connection to switch/es
- Check wiring between PCB and switch/es for proper connection
- Check switch/es with an ohmeter to verify proper operation

Switch operates incorrect function

- Check wiring between PCB and switches for proper orientation
- Check wiring for shorts between switch inputs

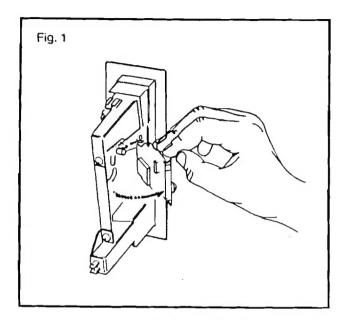
No coin meter

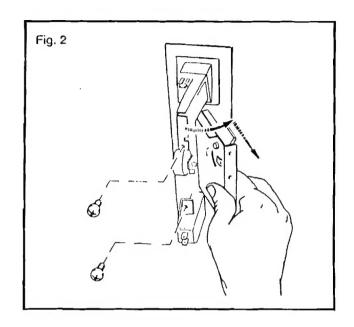
- Check wiring to coin meter
- Check that +5 volts is on "+" side of meter
- Verify a +5 volt meter is used

When coin switch is made and meter pulses, the screen blanks out and/or game resets

- Verify that a meter with a diode is used
- If no diode is built in meter a IN4004 can be used across the meter.
 Cathode to "+" side of meter and anode to "-" side of meter

COIN DOOR MAINTENANCE





The magnet that is fitted to the mechanism, should be kept clean from foreign particles. The magnet can be cleaned by swinging the gate open. (as shown in Fig. 1). Remove metal filings from the magnet by guiding the point of a screw-driver along the edges of the magnet, such that the filings cling to the screwdriver.

The mechanism can be cleaned by immersing in water using a small brush to clean the mechanism. Rinse the mechanism with boiling water and dry with compressed air.

Note:

Since the Gold Mech relies on coins passing the magnet at a constant speed, the rejector must be free of dirt and grease which may slow down the coins. Do not lubricate the acceptor with oil as this slows down coins.

If the above procedures are not successful, check for worn, bent or damaged parts and replace where necessary.

Removal of Mechanism

To remove the coin selector: Unscrew the two screws (as shown in Fig. 2) — swing rear of selector body away from the lock-out side and withdraw.

The Gold Mech Acceptors are designed to require a minimum of maintenance and field adjustment. Coins are checked by diameter and thickness, weight, metal content, bounce, and for ferromagnetic coins such as nickel and steel, a rim test also used.

Coin Switch

The coin switch comes in two different spring tensions — identified by the color of the plastic boss at the wire's pivot point.

Red: Light tension - U.S. .25¢

White: Heavy tension - heavy foreign coins

NOTES

MAIN HARNESS PIN OUTPUT

G CONNECTOR

ROMSTAR - THE NINJAWARRIORS

WIRE #	WIRE COLOR	SOLDER SIDE			COMPONENTS SIDE	WIRE COLOR	#
			Α	1			
			В	2			
	DEAD PIN		C	3		DEAD PIN	
1	BLACK	GROUND	D	4	GROUND	BLACK	9
		GROUND	Е	5	GROUND		
		POST (KEY)	F	6	POST (KEY)		
			H	7		DEAD PIN	
		COIN SWITCH B	J	8	COIN SWITCH A	WHITE	10
		COIN METER B	K	9	COIN METER A	BROWN	11
		COIN LOCKOUT B	L	10	COIN LOCKOUT A		
	DEAD PIN	TILT SWITCH	М	11	SERVICE SWITCH	DEAD PIN	
2	WHITE/GRAY	SELECT SWITCH B	Ν	12	SELECT SWITCH A	GRAY	12
3	WHITE/RED	2 PLAYER UP	Р	13	1 PLAYER UP	RED	13
4	WHITE/BLUE	2 PLAYER DOWN	R	14	1 PLAYER DOWN	BLUE	14
5	WHITE/ORANGE	2 PLAYER RIGHT	S	15	1 PLAYER RIGHT	ORANGE	15
6	WHITE/YELLOW	2 PLAYER LEFT	T	16	1 PLAYER LEFT	YELLOW	16
			U	17			
			V	18			
			W	19			
	DEAD PIN		X	20		DEAD PIN	
7	WHITE/GREEN	2 PLAYER DAGGER	Y	21	1 PLAYER DAGGER	GREEN	17
8	WHITE/PURPLE	2 PLAYER NINJASTAR	Z	22	1 PLAYER NINJASTAR	PURPLE	18

* FACTORY SETTING PLEASE SET THE NINJAWARRIOR PCB AS FOLLOWS:

DESCRIPTION	SETTING	ADJUSTMENT	POSITION	DIP BANK
CONTINUE MODE	WITH	OFF	1	A
TEST MODE	NORMAL	OFF	3	Α
DEMO SOUND	WITH	OFF	4	Α
COIN A	2 COIN 1 PLAY	OFF/ON	5/6	Α
COIN B	2 COIN 1 PLAY	OFF/ON	7/8	A
DIFFICULTY	С	OFF/ON	1/2	В
DISCOUNT PLAY WHEN CONTINUING	WITH	OFF	7	В

NOTE: ALL OTHER POSITIONS SHOULD BE OFF.

CONNECTOR H

CONNECTOR J

CONNECTOR K

POSITION	H CONNECTOR	WIRE COLOR
1	GROUND	BLACK
2	GROUND	BLACK
3	GROUND	BLACK
4	GROUND	BLACK
5	+5 VDC	RED
6	+5 VDC	RED
7	+5 VDC	RED
. 8	—5 VDC	WHITE
9	+12 VDC	YELLOW
10	POST	KEY
11		
12 +12 VDC		YELLOW

POSITION	J CONNECTOR	WIRE COLOR
1	VIDEO R (GROUND)	BLACK
2	VIDEO R (SYNC)	GRAY
3	VIDEO R (BLUE)	BLUE
4	VIDEO R (GREEN)	GREEN
5	VIDEO R (RED)	RED
6	VIDEO C (GROUND)	BLACK
7	VIDEO C (SYNC)	GRAY
8	VIDEO C (BLUE)	BLUE
9	VIDEO C (GREEN)	GREEN
10	VIDEO C (RED)	RED
11	VIDEO L (GROUND)	BLACK
12	VIDEO L (SYNC)	GRAY
13	VIDEO L (BLUE)	BLUE
14	VIDEO L (GREEN)	GREEN
15	VIDEO L (RED)	RED

POSITION	K CONNECTOR	WIRE COLOR
1	SPEAKER R+	WHITE
2	SPEAKER R-	BLACK
3	SPEAKER L+	WHITE/BLACK
4	SPEAKER L-	BLACK/WHITE

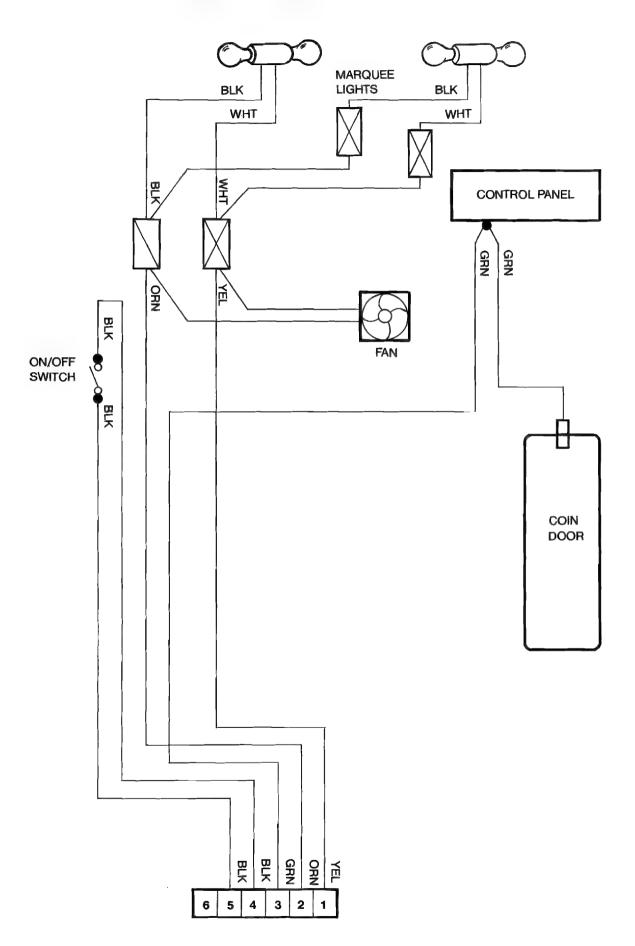
* J CONNECTOR

VIDEO R → RIGHT VIDEO

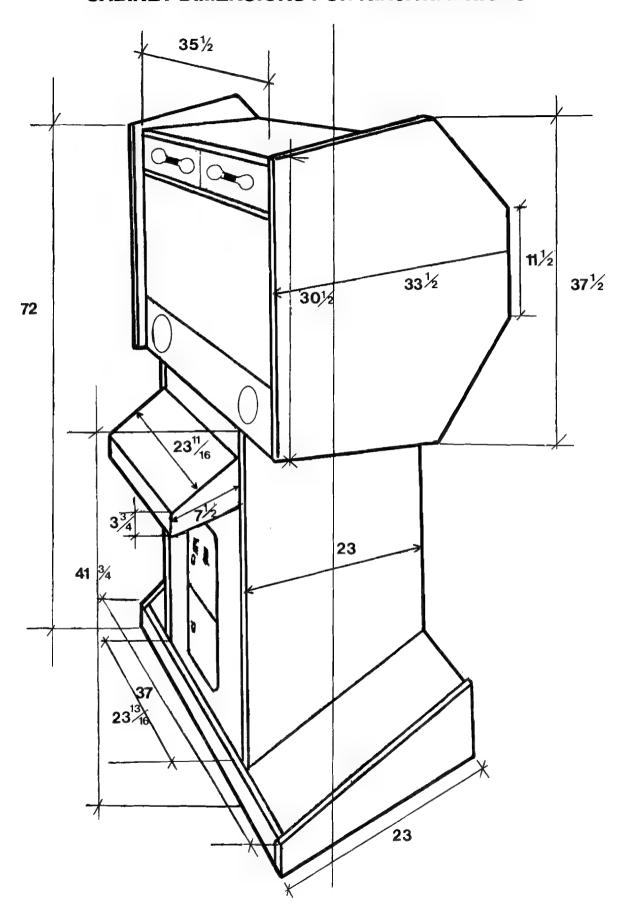
VIDEO C→ CENTER VIDEO

VIDEO L -- LEFT VIDEO

AC AND GROUND SIDEWALL DISC PLUG



CABINET DIMENSIONS FOR NINJAWARRIORS



LIMITED WARRANTY

ROMSTAR INC. ("Seller"), warrants only to the initial purchaser of its products that the items listed below are free from defects in material and workmanship under normal use and service for the warranty periods specified:

A. Printed Circuit Boards

(60) days

B. Electronic Components

(30) days

C. Television Monitors

(30) days

No other parts of Seller's products are warranted.

Warranty periods are effective from the initial date of shipment from Seller to its authroized distributors.

Seller's sole liability shall be, at its option, to repair or replace products which are returned to Seller during the warranty periods specified, provided:

- A. Seller is notified promptly upon discovery by buyer that stated products are defective.
- B. Such products are properly packaged and then returned, prepaid to Seller's plant.

This warranty does not apply to any parts damaged during shipping or handling, or due to improper installation or usage, or alteration. In no event shall Seller be liable for any anticipated profits, loss of profits, loss of use, incidental or consequential damages or any other losses incurred by the customer in connection with the purchase of Romstar Inc. product.

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